

IN THE CLAIMS

1-13. (Cancelled).

14. (New) A method for configuring a telecommunication system comprising a plurality of entities implementing a phase of communicating data conveyed by a plurality of transport channels, wherein said entities comprise at least one sending entity and at least one receiving entity, a phase of communication of said sending entity comprises a plurality of processing procedures specific to said plurality of transport channels, each processing procedure comprises a rate matching step and said rate matching step executes a transformation of an input block of an initial size into an output block of a final size by at least one of puncturing and repetition, said method further comprising:

a step of transmitting a parameter representative of a maximum puncture rate from said receiving entity to said sending entity;

a step of calculating, by said sending entity, for each of said processing procedures, said final size of said output block as a function of said initial size of said input block on a basis of a criterion, said criterion being dependent on said parameter transmitted by said step of transmitting; and

wherein some bits of said input block are punctured or repeated based on a variation between said final size and said initial size in said rate matching step.

15. (New) The method for configuring a telecommunication system according to claim 14, wherein said criterion is further dependent on a plurality of predefined parameters relative to said transport channels grouped together within a composite of transport channels, each predefined parameter being representative of a rate matching ratio of a transport channel comprised within said composite of transport channels.

16. (New) The method for configuring a telecommunication system according to claim 15, wherein said step of calculating further comprises:

a step for calculating a set of available sizes for a multiplexing frame with said parameter;

a step for selecting one of said available sizes as a maximum payload of said multiplexing frame; and

a step for calculating said final size as a function of said initial size , at least one of said predefined parameters , and said maximum payload of said multiplexing frame.

17. (New) The method for configuring a telecommunication system according to claim 15, wherein each of said predefined parameters vary in accordance with a quality of service of each of said transport channels comprised within said composite of transport channels.

18. (New) A mobile station configured to communicate data over a plurality of transport channels grouped together within a composite of transport channels, comprising:

means for transforming an input block of an initial size into an output block of a final size by at least one of puncturing and repetition based on a variation between said final size and said initial size;

means for receiving a parameter representative of a maximum puncture rate;

means for calculating said final size as a function of said initial size of said input block on a basis of a criterion, said criterion being dependent on said parameter.

19. (New) The mobile station according to claim 18, wherein said calculating means calculates said final size so that said final size varies in accordance with a maximum payload of one and a same multiplexing frame.

20. (New) The mobile station according to claim 18, wherein said criterion is further dependent on a plurality of predefined parameters for said composite of transport channels, each of said predefined parameters being representative of a rate matching ratio for each of said transport channels comprised within said composite of transport channels.

21. (New) The mobile station according to claim 20, wherein each of said predefined parameters vary in accordance with a quality of service of each of said transport channels comprised within said composite of transport channels.

22. (New) The mobile station according to claim 20, wherein said means for calculating further comprises:

means for calculating a set of available sizes for a multiplexing frame with said parameter;

means for selecting one of said available sizes as a maximum payload of said multiplexing frame;; and

means for calculating said final size as a function of said initial size, at least one of said predefined parameters, and said maximum payload of said multiplexing frame.

23. (New) A base station utilized for a telecommunication system comprising a plurality of entities implementing a phase of communicating data conveyed by a plurality of transport channels, wherein said entities comprise at least one sending entity and at least one receiving entity, a phase of communication of said sending entity comprises a plurality of processing procedures specific to said plurality of transport channels, each processing procedure comprises a rate matching step and said rate matching step executes a transformation of an input block of an initial size into an output block of a final size by at least one of puncturing and repetition, said method further comprising:

means for transmitting a parameter representative of a maximum puncture rate to said sending entity;

means for receiving data, said data being transformed by at least one of puncturing and repetition based on a variation between said final size and said initial size, said final size of said output block being calculated as a function of said initial size of said input block on a basis of a criterion, said criterion being dependent on said parameter representative of said maximum puncture rate;

24. (New) A method for transmitting data over a plurality of transport channels grouped together within a composite of transport channels, an input block of said data being transformed into an output block in a rate matching step, comprising:

a step of receiving a parameter representative of a maximum puncture rate from a base station; and

a step of determining a size of said output block as a function of a size of said input block on a basis of a criterion, said criterion being dependent on said parameter received from said base station; and

wherein some bits of said input block are punctured or repeated based on a variation between the size of said input block and the size of said output block in said rate matching step.